

# Global Marine Solutions

From Ship to Shore, single source providers for  
Fire Protection, Electronic Security, Life-Safety and  
Communications Systems

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The power behind **your mission**



# Specialists in Fire, Security, Communications Systems & Life Safety

Tyco have over 100 years specialised marine experience you can trust. We protect vessels at sea and safeguard what matters most – life and assets.

We provide through-life support and maintain vessels globally to ensure fleets are safe, reliable and dependable which is essential for our customers.

## At sea or inland we can offer you...

### Fire Protection

- Dry chemical powder, deck foam, high/low pressure CO2, local area watermist, hi-expansion, fire detection and alarm system.

### Electronic Security

- Ship perimeter protection, access control, video surveillance and 24/7 monitoring to demonstrate continuous compliance with ISPS.

### Life Safety

- Gas detection, general alarm, personal breathing devices, emergency shutdown systems, onboard hospital/ healthcare as well as fire and life saving appliances

### Communication

- Networking of audio, video and data signals.

## Service & Maintenance

You can always count on us for round-the-clock support wherever you might be. We offer 24/7 service and maintenance via local Tyco offices located strategically across the globe. Together we can help support and protect your maritime assets.

80% of the world's commercial vessels and naval fleets are protected by Tyco

## Global Turnkey Solution

### Manufacturing & Product Development

- ISO 9001:2008 Standards at our 36 manufacturing facilities and 14 Research and Development (R&D) centres.

### Application Engineering

- Customer focused approach in developing innovative solutions.

### Project Management

- Multi-disciplined teams co-ordinated across countries with a single point of contact.

### Installation & Commissioning

- In port, at sea or in the shipyards.
- Post Sales remote servicing facility providing after sales support.





**Super Yacht**

- Fixed Fire Fighting System
- Innovative Fire Detection Solutions
- Anti-piracy

## Complete Fixed Fire Fighting Solutions

Tyco has an unrivalled fixed fire fighting solution fully supported from manufacture to commissioning of the systems.

### Local Application Watermist

- Low pressure watermist technology for reduced costs
- Simple, long-term maintenance
- No detrimental effect on electrical machinery

### Watermist for Class A Machinery (TF) & Accommodation Spaces

- Low pressure, small bore pipe and less water usage

### CO<sub>2</sub> Systems

- Traditionally used for total flooding of fires in unmanned areas
- Suppresses fires without damaging sensitive equipment
- High pressure cylinder systems and low pressure tank systems for engine rooms, pump rooms and machinery spaces

### Foam and Dry Powder

- Specialist R&D to provide solutions for unique problems
- Full range of monitors, applicators and hand hose lines data signals.

### Hot Foam for Machinery Spaces Total Flood

- Cost effective alternative to CO<sub>2</sub> systems and total flood High Pressure watermist systems

### Hi-Expansion

- Our commitment to the development of 'best practice' foam system design ensures the most rapid fire 'knockdown' using the minimum amount of water

### Clean Agent Gas Flooding System INERGEN®

- Flexibility allows existing storage space to be utilised
- Non fogging, so as to not obscure escape routes
- Environmentally friendly and sustainable gaseous fire suppression

### Novec™ 1230 Gas Suppression

- An advanced, "next generation" halon replacement
- Low toxicity and has a boiling point of 49 degrees C, thus exists as a liquid at room temperature
- Novec™ 1230 fluid is noncorrosive, non-conductive and evaporates rapidly, so it will not harm delicate electronic, radar, navigation and other equipment. And, unlike foams and powders, it leaves no messy residue to clean up, so systems can remain operational



Specialist Foam Extinguishing System



## Fire Detection

- Rapid response to all types of fire to reduce major damage
- Minimal false/unwanted alarms
- SIL 2 rated detectors
- Situational awareness
- Flexibility saves installation and cabling costs

### For Offshore Applications

- Multi-channel flame detection to provide image and location of multiple fires







# Innovative Solutions | World Class Service



## Product Supply

Products from Tyco have been developed not only to meet the needs today, but also to comply with evolving marine requirements, including environmental issues, port state regulations and more.

We have an unrivalled product portfolio fully supported by a comprehensive stockholding to meet client's needs. We appreciate the demanding schedules our clients operate under and we constantly review our stock profile to reflect this.

### **Our range of products include:**

- Fire Suits
- Breathing Apparatus
- Extinguishers
- Fire hoses & hose reels
- Safety lamps





From manufacture of fire detection products to the commissioning of full fixed fire safety systems



## Security

### Monitoring & Surveillance

Tyco offers experience in creating end-to-end solutions that address your unique requirements. Tyco provides smart solutions to help you create safer workplaces and better processes.

### Video Surveillance

- Explosion-proof equipment for hazardous areas on tankers and offshore vessels
- Cost effective, web-based systems
- Digital video recording to demonstrate ISPS compliance

### Access Control

- Smart cards and biometrics for ease of use and enhanced security
- Less labour-intensive remote gangway control

### Intruder Detection

- Electro Net to detect and delay intruders from boarding
- Dual sensors to reduce false alarms
- Flexible options to reduce

## Life Safety

### Gas Detection

- Specialist gas detection solutions for mandatory monitoring
- Fixed systems or portable hand-held units

### General Alarm

- Very high availability of the system due to speaker monitoring and redundant paths
- Speech intelligibility evaluation
- Digital network

### Hospitals/Healthcare

- Complete theatre fit-out and onboard hospital facilities

### Other Solutions

- SIL 2 approved integrated fire, gas and emergency shutdown systems
- Portable and mobile fire extinguishers
- Self-contained breathing apparatus
- Range of breathing devices
- Fire door, damper and sprinkler monitoring and control
- Integrated safety command and control

## Communications

### Digital Networking

- Video streaming television
- Public address and background music
- Passenger information displays
- Care Communications
- Talk back and intercom systems



# Our Marine Service Team

## Global reach. Local delivery.

Our mission is to get equipment operating with minimal disruption to a vessel's schedule. We achieve this by using our local network or by deploying engineers and parts by next day air delivery directly to a vessel to save both time and expense and to improve efficiency.

Crucial onboard equipment is constantly subjected to changes in climate, temperature and vibration that can cause equipment to unexpectedly breakdown. Our Remote Servicing System can be integrated or co-ordinated with yours in order to improve efficiency.

### How we operate

- Manufacturing and product development to ISO 9001:2000 Standards
- Application engineering develops innovative solutions with a customer focused approach
- Our multi-disciplined marine consultants and project management teams are co-ordinated across countries with a single point of contact
- Installation and commissioning is performed in port, at sea or in the shipyards
- Our service and maintenance strategy is based on support from people and 24 hour parts warehouses located at strategic points around the world to provide assistance when needed
- We have a large number of Marine Distributors and Service Partners located throughout the world







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### 01 Container Vessels

- COSCO – China
- NOL – Singapore
- P&O Nedlloyd Ltd – Netherlands

### 02 Military Naval Vessels

- China
- Germany
- Italy
- United Kingdom
- United States of America

### 03 Cruise Vessels & Ferries

- Carnival Cruise Lines – USA
- Costa Crociere – Italy
- Holland America Lines – USA
- Princess Cruises – USA
- DFDS Tor Line AS – Denmark
- Moby Lines – Italy
- Sea France – France

### 04 Super Yachts

- Shipyard C. Van Lent – Netherlands
- Nigel Burgess – UK

### 05 FPSO's

- CNOOC – China
- Petrobras – Brazil
- Prosafe Production Pte. Ltd – Singapore
- Single Buoy Mooring (IHC Caland Group) – Netherlands
- Woodside Energy Ltd – Australia

### 06 Inland Waterways

- Cambridge Lines – UK
- Deutch Lines – Germany
- Sienne Lines – France
- Positano Lines – Italy

### 07 Offshore Support

- Mitsui O.S.K. Line – Japan
- National Gas Shipping Co. Ltd – Abu Dhabi
- NYK Line – Japan

### 08 Tankers

- Petronas Tankers – Malaysia
- Pertamina – Indonesia
- Knutsen OAS Shipping AS – Norway

### 09 LNG Vessels

- Mitsui O.S.K. Line – Japan
- National Gas Shipping Co. Ltd – Abu Dhabi
- NYK Line – Japan

# Global Strength

## Local Expertise. At your service.

### Service & Maintenance

Tyco is fully committed to through life support of assets. Our systems are designed, installed and serviced to the highest standards to provide robust solutions for vessels around the world 24/7, 365 days of the year.

- Service
- Annual safety certification
- Spare parts
- Small works/Retro – Re-fit
- Certification & Endorsement Regulatory Influence (IMO)
- Accreditation

### Marine Locations

- Europe
  - United Kingdom
  - France
  - Germany
  - Holland
  - Italy
  - Norway
- Asia
  - Hong Kong
  - Korea
  - China
  - Singapore
- Pacific
  - Australia

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